

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,989	07/03/2003	Hideo Uwagaki	1247-0517P	3414
2292	7590 05/19/200	EXAMINER		INER
BIRCH STI PO BOX 747	EWART KOLASCH	MORRISON, THOMAS A		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
	,		3653	

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/611,989	HIDEO UWAGAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
* .	Thomas A. Morrison	3653				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>03 July 2003</u> .						
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>03 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 08/20/2003.	6) Other:	atent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1 and its dependent claims 2-6, claim 1 recites "abutting portion separating means for moving the abutting portion in a direction away from the rotatable feeding means so as to release the holding of the sheets between the abutting portion and the abutting portion and the rotatable feeding means when the one sheet has reached the target position". (emphasis added). It is unclear what is meant by the recited between the abutting portion and the abutting portion...

Claim 1 recites the limitation "the holding of the sheets" in line 26. There is insufficient antecedent basis for this limitation in the claim.

Claim 2 recites, "the sheets near the rotatable feeding means" in lines 3-4. It is unclear which sheets are referred to.

Claim 3 recites the limitation "the sheets" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites "leftover sheets" in lines 4-5. It is unclear if the recited leftover sheets are the same or different from the recited "leftover sheets" recited in claim 3.

In claim 5, it is unclear what is meant by "connected in common" in line 6.

Application/Control Number: 10/611,989 Page 3

Art Unit: 3653

In claim 6, it is unclear what is meant by "connected thereto in common" in line 8.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,000,689 (Furuki et al.). In particular, the Furuki et al. patent discloses all of the limitations of claims 1-3.

Regarding claim 1, Figs. 1-4 and 11-13 show a sheet feeding apparatus including a rotatable feeding means (3) for feeding a sheet by rotation thereof;

supporting means (including unnumbered paper tray in Fig. 4), having a supporting portion (unnumbered paper tray in Fig. 4) movable toward and away from the rotatable feeding means (3), for supporting a plurality of stacked sheets (1) from a side opposite from the rotatable feeding means (3), and for elastically causing one sheet closest to the rotatable feeding means (3) to contact the rotatable feeding means (3);

separating means (including 4, 7 and 11), having an abutting portion (surface of 4) movable toward and away from the rotatable feeding means (3), for elastically holding the sheets (1) between the abutting portion (surface of 4) and the rotatable

Application/Control Number: 10/611,989

Art Unit: 3653

feeding means (3), and for separating the sheets so as to allow only the one sheet closest to the rotatable feeding means (3) to be fed out with the rotation of the rotatable feeding means (3), the separating means (including 4, 7 and 11) being disposed downstream of the supporting means (including unnumbered paper tray in Fig. 4) in a sheet feeding direction;

sheet separating means (including 6) for displacing remaining sheets in a direction away from the rotatable feeding means (3) when the one sheet has been advanced to a target position reaching sheet transporting means (22 in Fig. 12) disposed downstream in the sheet feeding direction;

abutting portion separating means (8) for moving the abutting portion (surface of 4) in a direction away from the rotatable feeding means (3) so as to release the holding of the sheets between the abutting portion (surface of 4) and the abutting portion and the rotatable feeding means (3) when the one sheet has reached the target position; and

limiting means (20a in Fig. 13) for preventing the remaining sheets, excluding the one sheet, from moving downstream in the sheet feeding direction when the one sheet has reached the target position.

Regarding claim 2, Figs. 1-4 and 11-13 show that the sheet separating means (including 4, 7 and 11) is provided adjacent to the rotatable feeding means (3), and displaces the sheets near the rotatable feeding means (3) by pressing the sheets from a side adjacent to the rotatable feeding means (3).

Regarding claim 3, Fig. 13 shows that the limiting means (20a) aligns leading edges of leftover sheets which are the sheets fed to the separating means from the remaining sheets by the rotatable feeding means (3) and separated from the one sheet by the separating means.

3. Claims 1-3, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,217,017 (Yamazaki). In particular, the Yamazaki patent discloses all of the limitations of claims 1-3.

Regarding claim 1, Figs. 1-11 show a sheet feeding apparatus including rotatable feeding means (20) for feeding a sheet by rotation thereof;

supporting means (including 17 and 18), having a supporting portion (17) movable toward and away from the rotatable feeding means (20), for supporting a plurality of stacked sheets (11) from a side opposite from the rotatable feeding means (20), and for elastically causing one sheet closest to the rotatable feeding means (20) to contact the rotatable feeding means (20);

separating means (25), having an abutting portion (22) movable toward and away from the rotatable feeding means (20), for elastically holding the sheets between the abutting portion (22) and the rotatable feeding means (20), and for separating the sheets so as to allow only the one sheet closest to the rotatable feeding means (20) to be fed out with the rotation of the rotatable feeding means (20), the separating means (25) being disposed downstream of the supporting means (including 17 and 18) in a sheet feeding direction;

Application/Control Number: 10/611,989

Art Unit: 3653

sheet separating means (including 19a, 17a, 19 and 36 in Figs. 2a and 10) for displacing remaining sheets in a direction away from the rotatable feeding means (20) when the one sheet has been advanced to a target position reaching sheet transporting means (37) disposed downstream in the sheet feeding direction;

abutting portion separating means (including 27, 29, 34 and 82 in Figs. 8-10) for moving the abutting portion (22) in a direction away from the rotatable feeding means (20) so as to release the holding of the sheets between the abutting portion (22) and the abutting portion and the rotatable feeding means (20) when the one sheet has reached the target position; and

limiting means (28) for preventing the remaining sheets, excluding the one sheet, from moving downstream in the sheet feeding direction when the one sheet has reached the target position.

Regarding claim 2, Fig. 4 shows that the sheet separating means (25) is provided adjacent to the rotatable feeding means (20), and displaces the sheets near the rotatable feeding means (20) by pressing the sheets from a side adjacent to the rotatable feeding means (20).

Regarding claim 3, Fig. 7 shows that the limiting means (28) aligns leading edges of leftover sheets which are the sheets fed to the separating means from the remaining sheets by the rotatable feeding means (20) and separated from the one sheet by the separating means (20).

Application/Control Number: 10/611,989

Art Unit: 3653

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Morrison whose telephone number is (571) 272-7221. The examiner can normally be reached on M-F, 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Walsh can be reached on (571) 272-6944. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EILEEN D. LILLIS
SUPERVISORY PATENT EXAMINER

Page 7

TECHNOLOGY CENTER 3600